

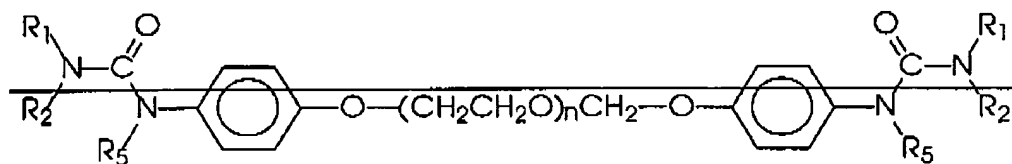
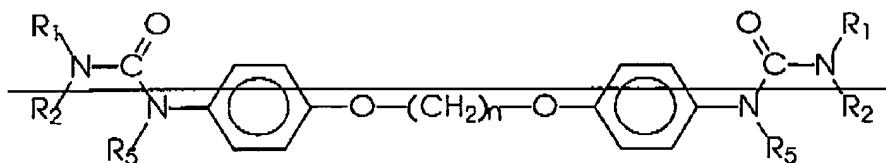
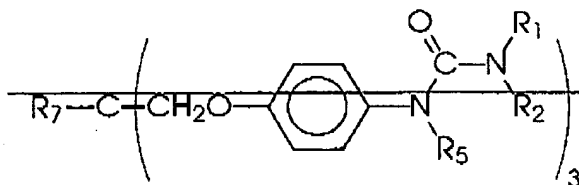
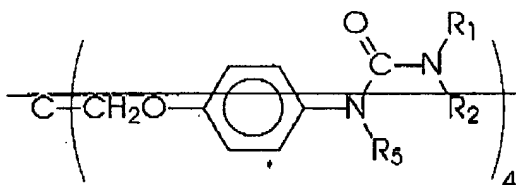
Application No. 10/810,370

**BEST AVAILABLE COPY****AMENDMENTS TO THE CLAIMS:**

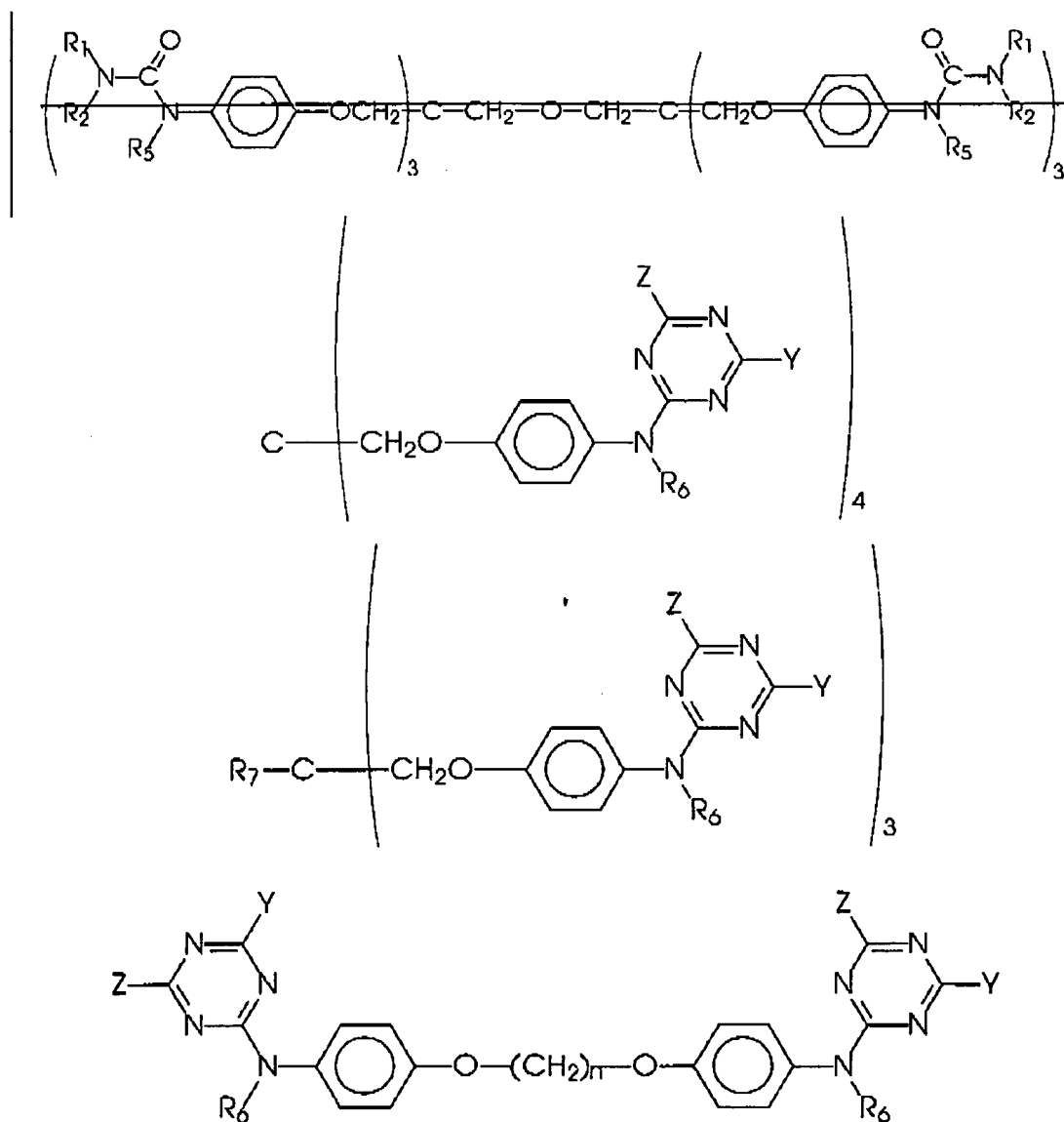
This listing of claims will replace all prior versions, and listings of claims in the application:

**LISTING OF CLAIMS:**

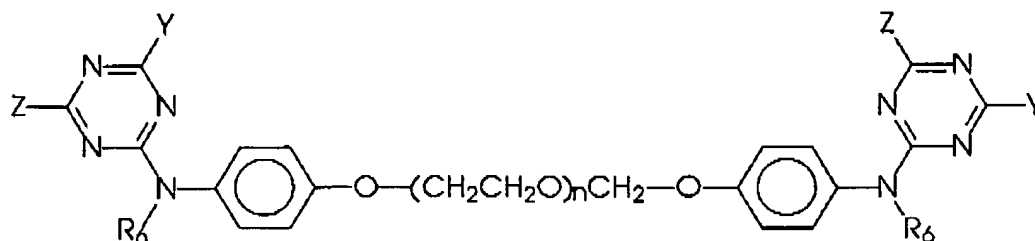
1. (Currently Amended) A compound of the formula



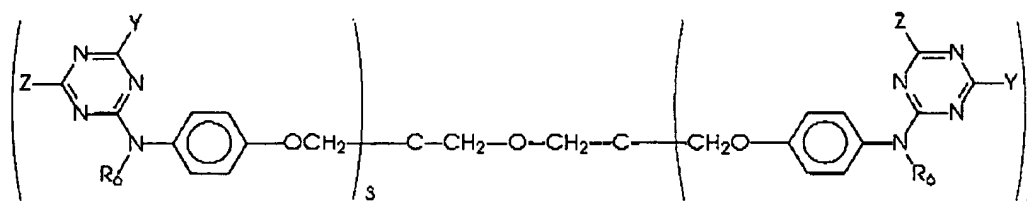
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or



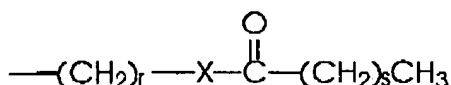
wherein Z is a group of the formula  $-\dot{O}R_1$ , a group of the formula  $-SR_1$ , or a group of the formula  $-NR_1R_2$ , Y is a group of the formula  $-OR_3$ , a group of the formula  $-SR_3$ , or a group of the formula  $-NR_3R_4$ , n is an integer representing the number of repeat  $-(CH_2)-$  or  $-(CH_2CH_2O)-$  units, wherein, provided that at least one of  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$ , and  $R_6$  is a hydrogen atom, provided that at least one of  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$ , and  $R_6$  is other than a hydrogen atom, and provided that at least one Z or Y within the compound is a group of the formula  $-NR_1R_2$  or a group of the formula  $-NR_3R_4$ ,  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$ ,  $R_6$ , and  $R_7$  each, independently of the others, is (i) a hydrogen atom, (ii) an alkyl group, ~~including linear, branched, saturated, unsaturated, cyclic, unsubstituted, and substituted alkyl groups, wherein the alkyl group may be saturated or unsaturated, wherein the alkyl group may be substituted or unsubstituted, and wherein hetero atoms either may or may not be placed between the carbon atoms in the alkyl group.~~ (iii) an aryl group, including

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~~unsubstituted and substituted aryl groups, wherein the aryl group may be substituted or unsubstituted, and wherein hetero atoms either may or may not be present in the aryl group, (iv) an arylalkyl group, including unsubstituted and substituted arylalkyl groups, wherein the arylalkyl group may be substituted or unsubstituted, and wherein hetero atoms either may or may not be present in either or both of the alkyl portion and the aryl portion of the arylalkyl group, or (v) an alkylaryl group, including unsubstituted and substituted alkylaryl groups, wherein the alkylaryl group may be substituted or unsubstituted, and wherein hetero atoms either may or may not be present in either or both of the alkyl portion and the aryl portion of the alkylaryl group, and wherein R<sub>7</sub> can also be (vi) an alkoxy group, including linear, branched, saturated, unsaturated, cyclic, unsubstituted, and substituted alkoxy groups, wherein the alkoxy group may be saturated or unsaturated, wherein the alkoxy group may be substituted or unsubstituted, and wherein hetero atoms either may or may not be present in the alkyl portion of the alkoxy group, (vii) an aryloxy group, including unsubstituted and substituted aryloxy groups, wherein the aryloxy group may be substituted or unsubstituted, and wherein hetero atoms either may or may not be present in the aryl portion of the aryloxy group, (viii) an arylalkyloxy group, including unsubstituted and substituted arylalkyloxy groups, wherein the arylalkyloxy group may be substituted or unsubstituted, and wherein hetero atoms either may or may not be present in either or both of the alkyl portion and the aryl portion of the arylalkyloxy group, (ix) an alkylaryloxy group, including unsubstituted and substituted alkylaryloxy groups, wherein the alkylaryloxy group may be substituted or~~

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unsubstituted, and wherein hetero atoms either may or may not be present in either or both of the alkyl portion and the aryl portion of the alkylaryloxy group, (x) a polyalkyleneoxy group, (xi) a polyaryleneoxy group, (xii) a polyarylalkyleneoxy group, (xiii) a polyalkylaryleneoxy group, (xiv) a silyl group, ~~including unsubstituted and substituted silyl groups, wherein the silyl group may be substituted or unsubstituted~~, (xv) a siloxane group, ~~including unsubstituted and substituted siloxane groups, wherein the siloxane group may be substituted or unsubstituted~~, (xvi) a polysilylene group, ~~including unsubstituted and substituted polysilylene groups, wherein the polysilylene group may be substituted or unsubstituted~~, (xvii) a polysiloxane group, ~~including unsubstituted and substituted polysiloxane groups, wherein the polysiloxane group may be substituted or unsubstituted~~, or (xviii) a group of the formula



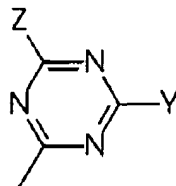
wherein r is an integer representing a number of repeat -CH<sub>2</sub>- groups, wherein s is an integer representing a number of repeating -CH<sub>2</sub>- groups, and wherein X is (a) a direct bond, (b) an oxygen atom, (c) a sulfur atom, (d) a group of the formula -NR<sub>40</sub>- wherein R<sub>40</sub> is a hydrogen atom, ~~an alkyl group, including linear, branched, saturated, unsaturated, cyclic, unsubstituted, and substituted alkyl groups, wherein the alkyl group may be saturated or unsaturated, wherein the alkyl group may be substituted or unsubstituted~~, and wherein hetero atoms either may or may not be placed between the carbon atoms in the alkyl group, an ~~aryl group, including unsubstituted and substituted aryl groups, wherein~~

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the aryl group may be substituted or unsubstituted, and wherein hetero atoms either may or may not be present in the aryl group, an arylalkyl group, including unsubstituted and substituted arylalkyl groups, wherein the arylalkyl group may be substituted or unsubstituted, and wherein hetero atoms either may or may not be present in either or both of the alkyl portion and the aryl portion of the arylalkyl group, or an alkylaryl group, including unsubstituted and substituted alkylaryl groups, wherein the alkylaryl group may be substituted or unsubstituted, and wherein hetero atoms either may or may not be present in either or both of the alkyl portion and the aryl portion of the alkylaryl group, or (e) a group of the formula  $-CR_{50}R_{60}-$  wherein  $R_{50}$  and  $R_{60}$  each, independently of the other, is a hydrogen atom, an alkyl group, including linear, branched, saturated, unsaturated, cyclic, unsubstituted, and substituted alkyl groups, wherein the alkyl group may be saturated or unsaturated, wherein the alkyl group may be substituted or unsubstituted, and wherein hetero atoms either may or may not be placed between the carbon atoms in the alkyl group, an aryl group, including unsubstituted and substituted aryl groups, wherein the aryl group may be substituted or unsubstituted, and wherein hetero atoms either may or may not be present in the aryl group, an arylalkyl group, including unsubstituted and substituted arylalkyl groups, wherein the arylalkyl group may be substituted or unsubstituted, and wherein hetero atoms either may or may not be present in either or both of the alkyl portion and the aryl portion of the arylalkyl group, or an alkylaryl group, including unsubstituted and substituted alkylaryl groups, wherein the alkylaryl group may be substituted or unsubstituted, and wherein hetero atoms

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either may or may not be present in either or both of the alkyl portion and the aryl portion of the alkylaryl group, and wherein  $R_6$  can also be



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2. (Cancelled)



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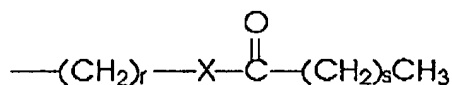
3. (Cancelled)

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4. (Currently Amended) A compound according to claim 1 wherein Z is a group of the formula  $-OR_1$ , a group of the formula  $-SR_1$ , or a group of the formula  $-NR_1R_2$ . Y is a group of the formula  $-OR_3$ , a group of the formula  $-SR_3$ , or a group of the formula  $-NR_3R_4$ , n is from 1 to about 100, wherein, provided that at least one of  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$ , and  $R_6$  is a hydrogen atom, provided that at least one of  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$ , and  $R_6$  is other than a hydrogen atom, and provided that at least one Z or Y within the compound is a group of the formula  $-NR_1R_2$  or a group of the formula  $-NR_3R_4$ ,  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$ ,  $R_6$ , and  $R_7$  each, independently of the others, is (i) a hydrogen atom, (ii) an alkyl group having at least 1 carbon atom and having no more than about 96 carbon atoms, (iii) an aryl group having at least about 6 carbon atoms and having no more than about 50 carbon atoms, (iv) an arylalkyl group having at least about 7 carbon atoms and having no more than about 96 carbon atoms, or (v) an alkylaryl group having at least about 7 carbon atoms and having no more than about 96 carbon atoms, and wherein  $R_7$  can also be (vi) an alkoxy group having at least 1 carbon atom and having no more than about 96 carbon atoms, (vii) an aryloxy group having at least about 6 carbon atoms and having no more than about 50 carbon atoms, (viii) an arylalkyloxy group having at least about 7 carbon atoms and having no more than about 96 carbon atoms, (ix) an alkylaryloxy group having at least about 7 carbon atoms and having no more than about 96 carbon atoms, (x) a polyalkyleneoxy group wherein the alkyl portion of the repeat alkyleneoxy groups has from about 1 to about 12 carbon atoms and wherein the number of repeat alkyleneoxy groups is from about 2 to about 50, (xi) a polyaryleneoxy group wherein the aryl portion of the

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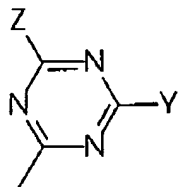
repeat aryleneoxy groups has from about 6 to about 14 carbon atoms and wherein the number of repeat aryleneoxy groups is from about 2 to about 20, (xii) a polyarylkyleneoxy group wherein the arylalkyl portion of the repeat arylalkyleneoxy groups has from about 7 to about 50 carbon atoms and wherein the number of repeat arylalkyleneoxy groups is from about 2 to about 20, (xlii) a polyalkylaryleneoxy group wherein the alkylaryl portion of the repeat alkylaryleneoxy groups has from about 7 to about 50 carbon atoms and wherein the number of repeat alkylaryleneoxy groups is from about 2 to about 20, (xiv) a silyl group, (xv) a siloxane group, (xvi) a polysilylene group with from 2 to about 100 repeat silylene units, (xvii) a polysiloxane group with from 2 to about 200 repeat siloxane units, or (xviii) a group of the formula



wherein r is at least 1, wherein r is no more than about 100, wherein s is at least 1, wherein s is no more than about 100, and wherein X is (a) a direct bond, (b) an oxygen atom, (c) a sulfur atom, (d) a group of the formula  $\text{---NR}_{40}\text{---}$  wherein  $\text{R}_{40}$  is a hydrogen atom, an alkyl group with from 1 to about 50 carbon atoms, an aryl group with from 6 to about 50 carbon atoms, an arylalkyl group with from about 7 to about 100 carbon atoms, or an alkylaryl group with from about 7 to about 100 carbon atoms, or (e) a group of the formula  $\text{---CR}_{50}\text{R}_{60}\text{---}$  wherein  $\text{R}_{50}$  and  $\text{R}_{60}$  each, independently of the other, is a hydrogen atom, an alkyl group with from 1 to about 50 carbon atoms, an aryl group with from 6 to about 50 carbon atoms, an arylalkyl group with from about 7 to about 100 carbon

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atoms, or an alkylaryl group with from about 7 to about 100 carbon atoms, and wherein  $R_6$  can also be



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5. (Currently Amended) A compound according to claim 1 wherein at least one of  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ ,  ~~$R_5$~~  and  $R_6$  is an unsubstituted alkyl group, an unsubstituted aryl group, an unsubstituted arylalkyl group, or an unsubstituted alkylaryl group.

6. (Currently Amended) A compound according to claim 1 wherein at least one of  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ ,  ~~$R_5$~~  and  $R_6$  is a substituted alkyl group, a substituted aryl group, a substituted arylalkyl group, or a substituted alkylaryl group.

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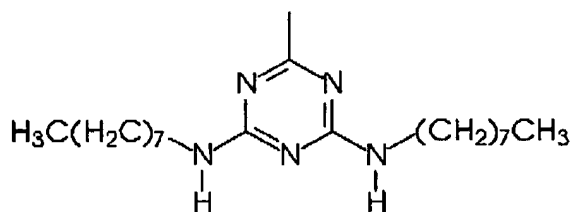
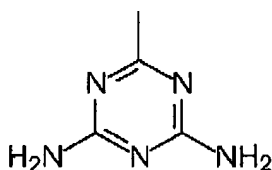
7. (Previously Presented) A compound according to claim 6 wherein the substituents on the substituted alkyl group, substituted aryl group, substituted arylalkyl group, or substituted alkylaryl group are halogen atoms, amine groups, ammonium groups, pyridine groups, pyridinium groups, ether groups, ester groups, amide groups, carbonyl groups, sulfate groups, sulfonate groups, sulfide groups, sulfoxide groups, phosphonium groups, phosphate groups, nitrile groups, nitro groups, nitroso groups, sulfone groups, acyl groups, azo groups, alkoxy groups, aryloxy groups, arylalkyloxy groups, alkylaryloxy groups, polyalkyleneoxy groups wherein the alkyl portion of the repeat alkyleneoxy groups has from about 1 to about 12 carbon atoms and wherein the number of repeat alkyleneoxy groups is from about 2 to about 50, polyaryleneoxy groups wherein the aryl portion of the repeat aryleneoxy groups has from about 6 to about 14 carbon atoms and wherein the number of repeat aryleneoxy groups is from about 2 to about 20, polyarylalkyleneoxy groups wherein the arylalkyl portion of the repeat arylalkyleneoxy groups has from about 7 to about 50 carbon atoms and wherein the number of repeat arylalkyleneoxy groups is from about 2 to about 20, polyalkylaryleneoxy group wherein the alkylaryl portion of the repeat alkylaryleneoxy groups has from about 7 to about 50 carbon atoms and wherein the number of repeat alkylaryleneoxy groups is from about 2 to about 20, silyl groups, siloxane groups, polysilylene groups with from 2 to about 100 repeat silylene units, polysiloxane groups with from 2 to about 200 repeat siloxane units, or mixtures thereof, wherein two or more substituents can be joined together to form a ring.

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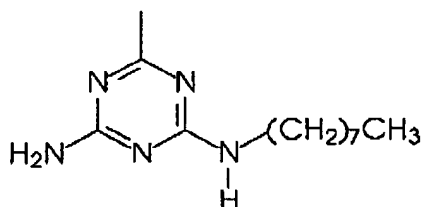
8. (Previously Presented) A compound according to claim 1 wherein  $R_1$ ,  $R_2$ ,  $R_3$ , and  $R_4$  each, independently of the others, is hydrogen, methyl, ethyl, propyl, butyl, pentyl, hexyl, heptyl, octyl, nonyl, decyl, undecyl, dodecyl, tridecyl, tetradecyl, pentadecyl, hexadecyl, heptadecyl, octadecyl, nonadecyl, or eicosyl.

9. (Cancelled)

10. (Previously Presented) A compound according to claim 1 wherein  $R_6$  is hydrogen,



or



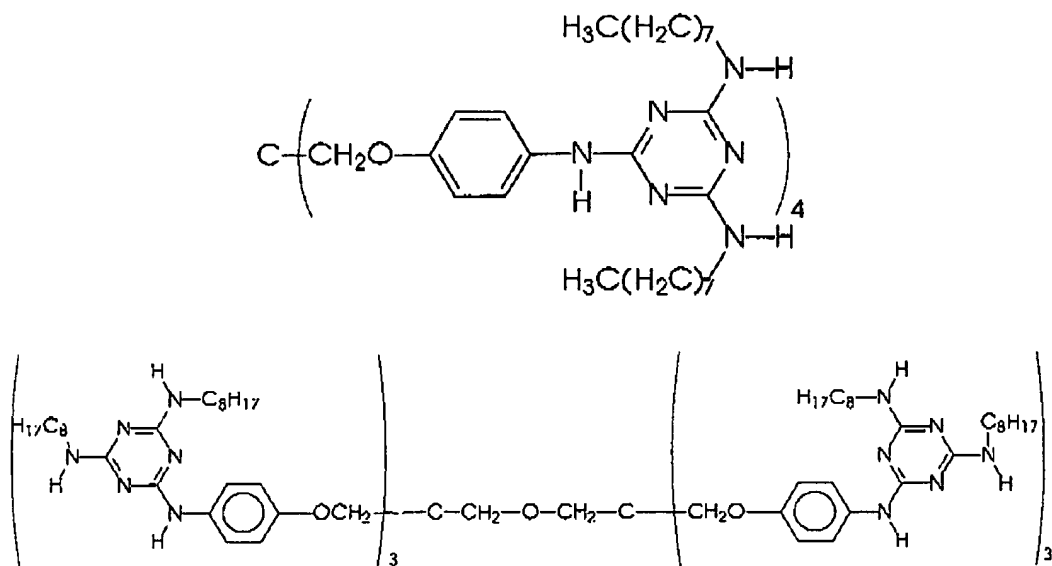
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11. (Previously Presented) A compound according to claim 1 wherein n is 1, 3, 5, 7, or 9.

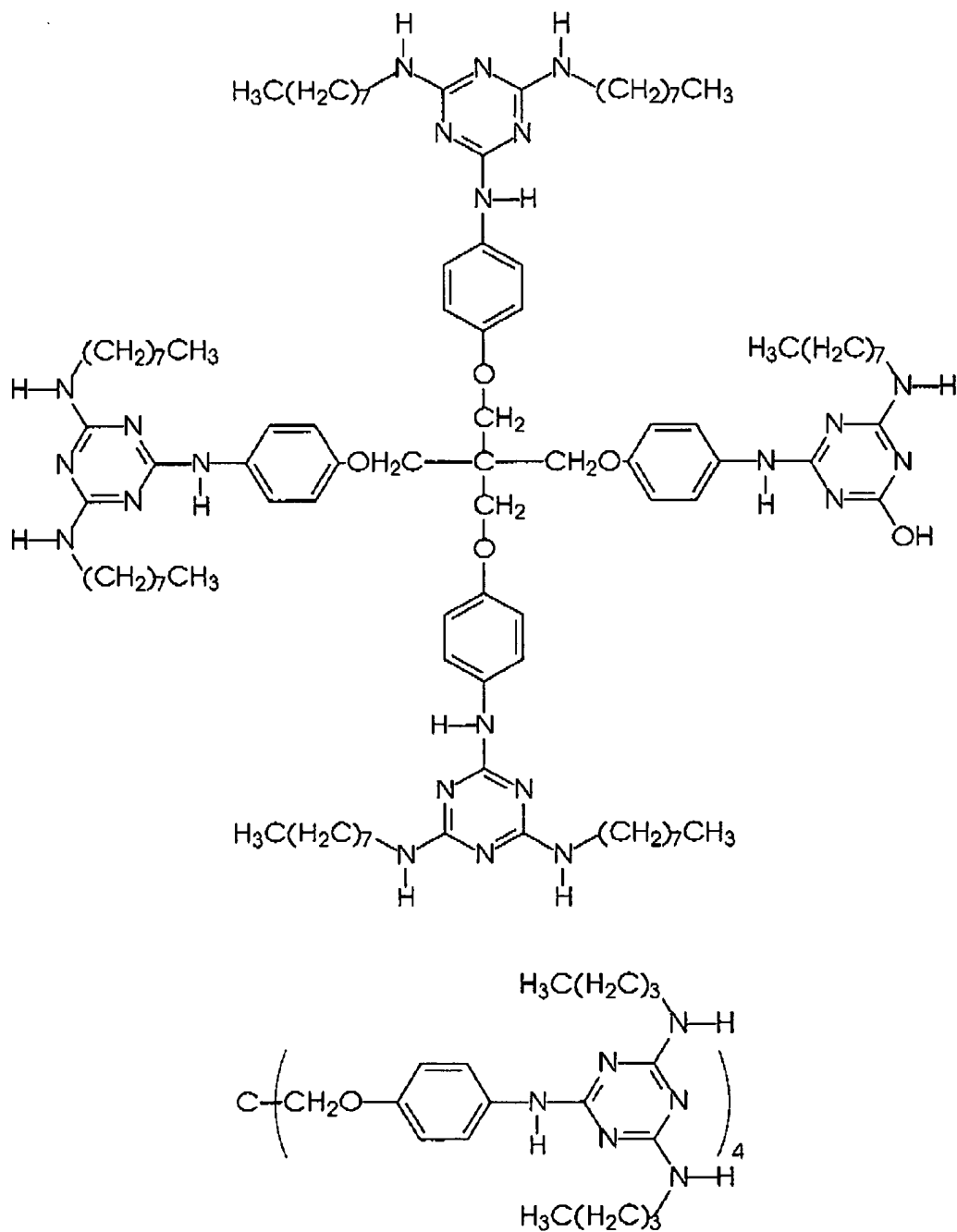


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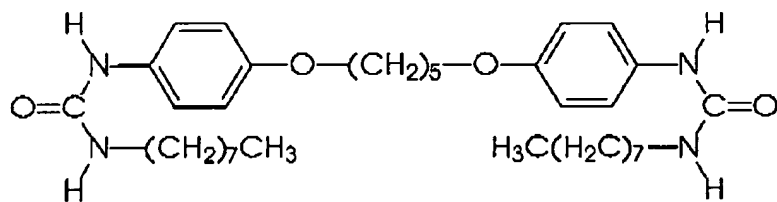
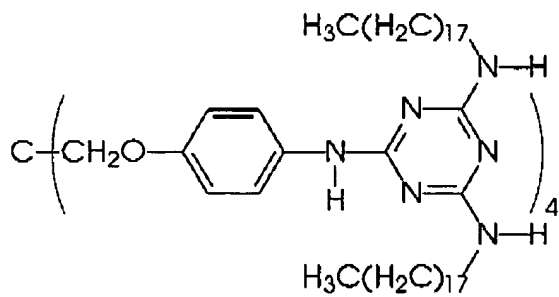
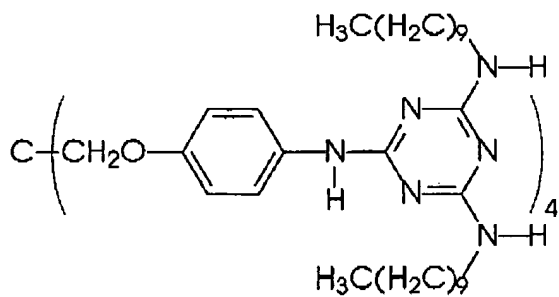
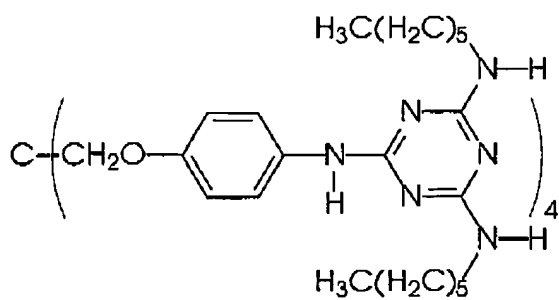
12. (Previously Presented) A compound according to claim 1 of the formula



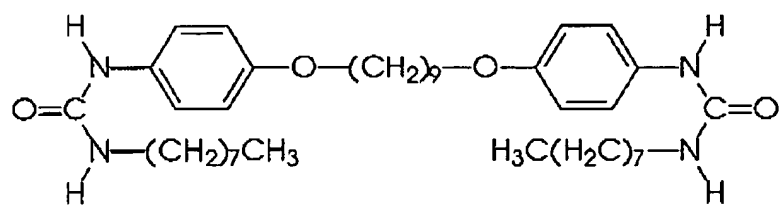
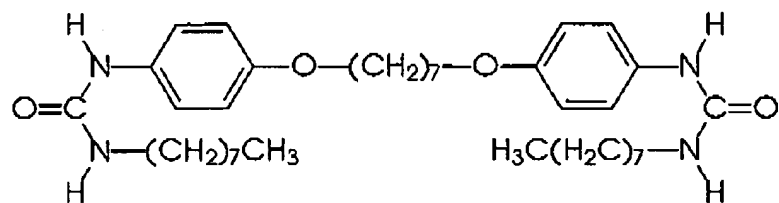
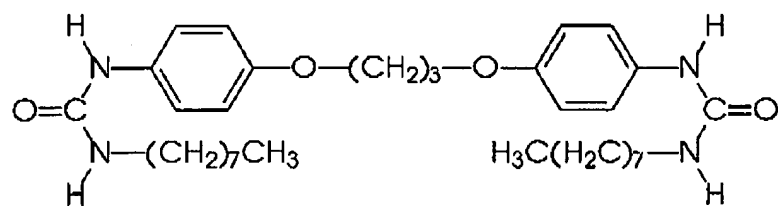
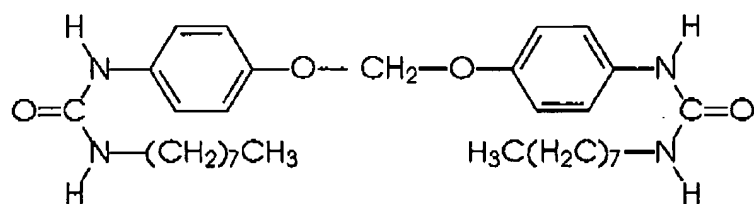
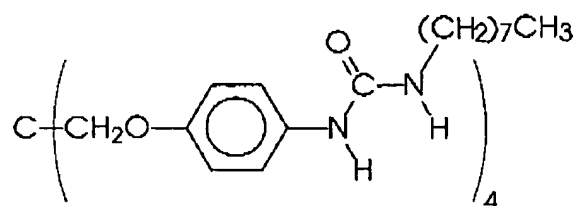
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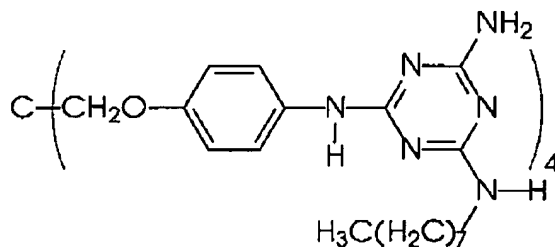
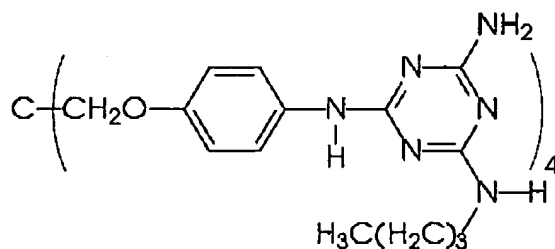
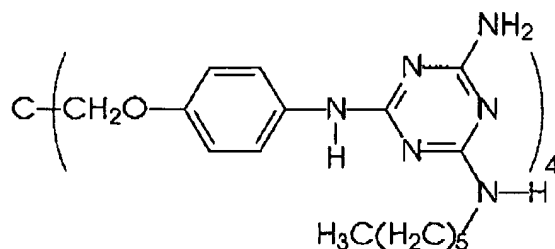
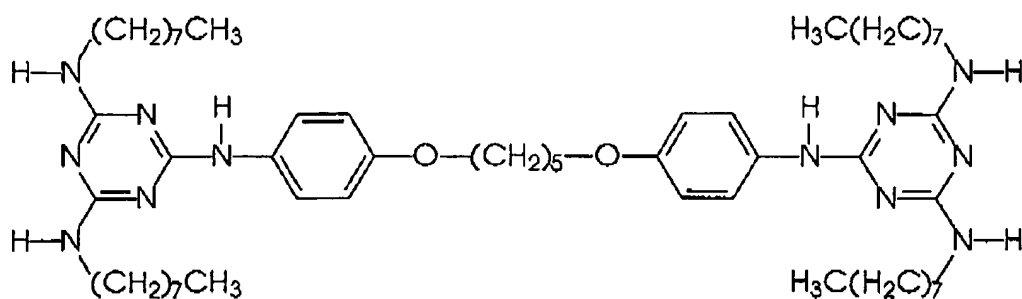
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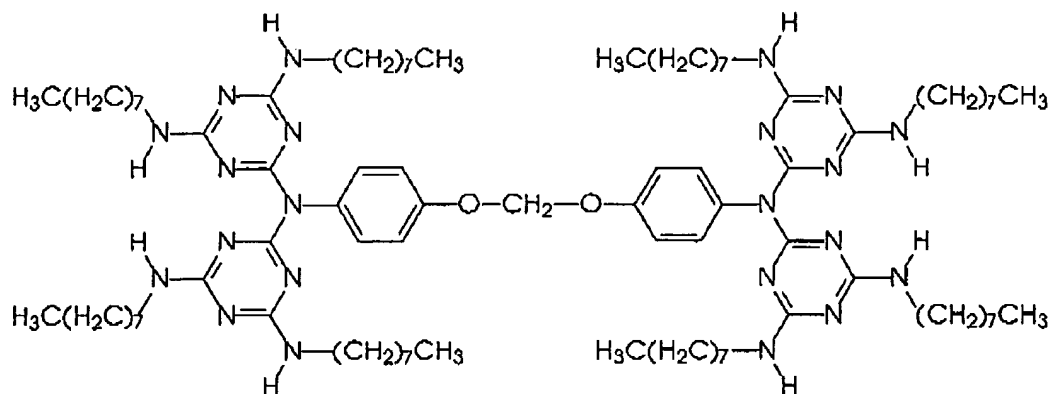
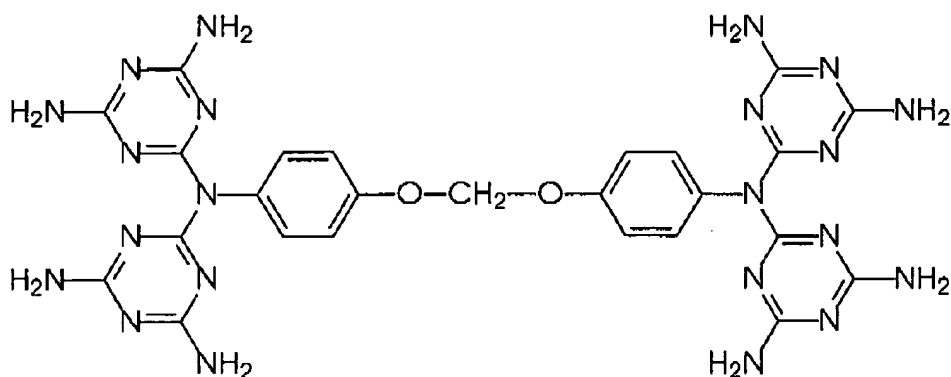
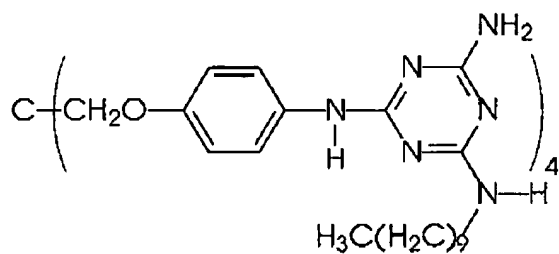
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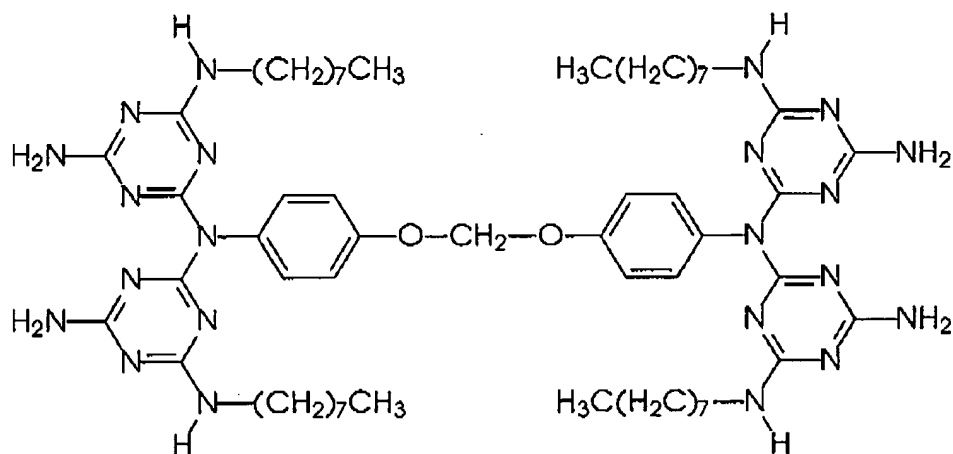


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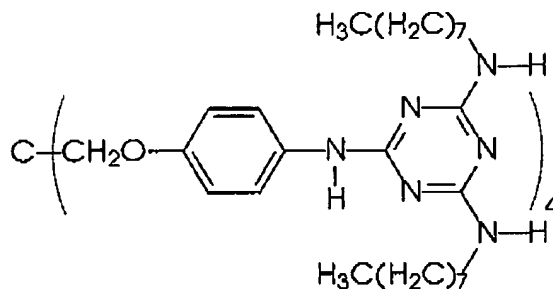
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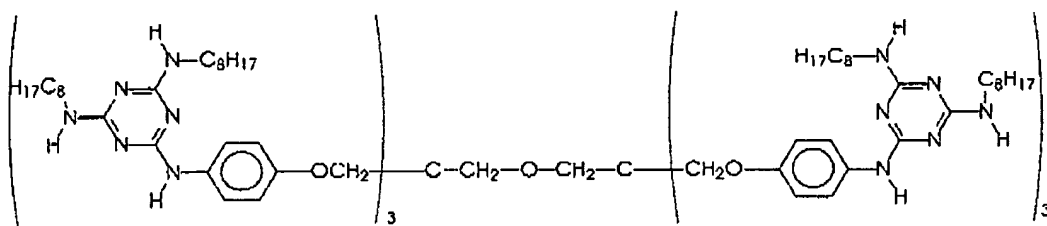


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13. (Original) A compound according to claim 1 of the formula



14. (Original) A compound according to claim 1 of the formula



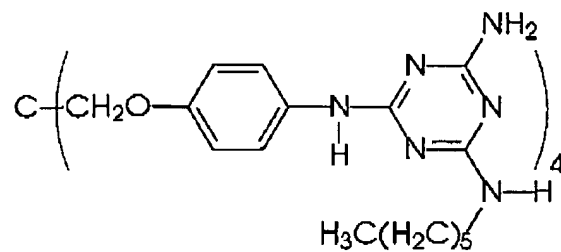
15. (Cancelled)

16. (Cancelled)



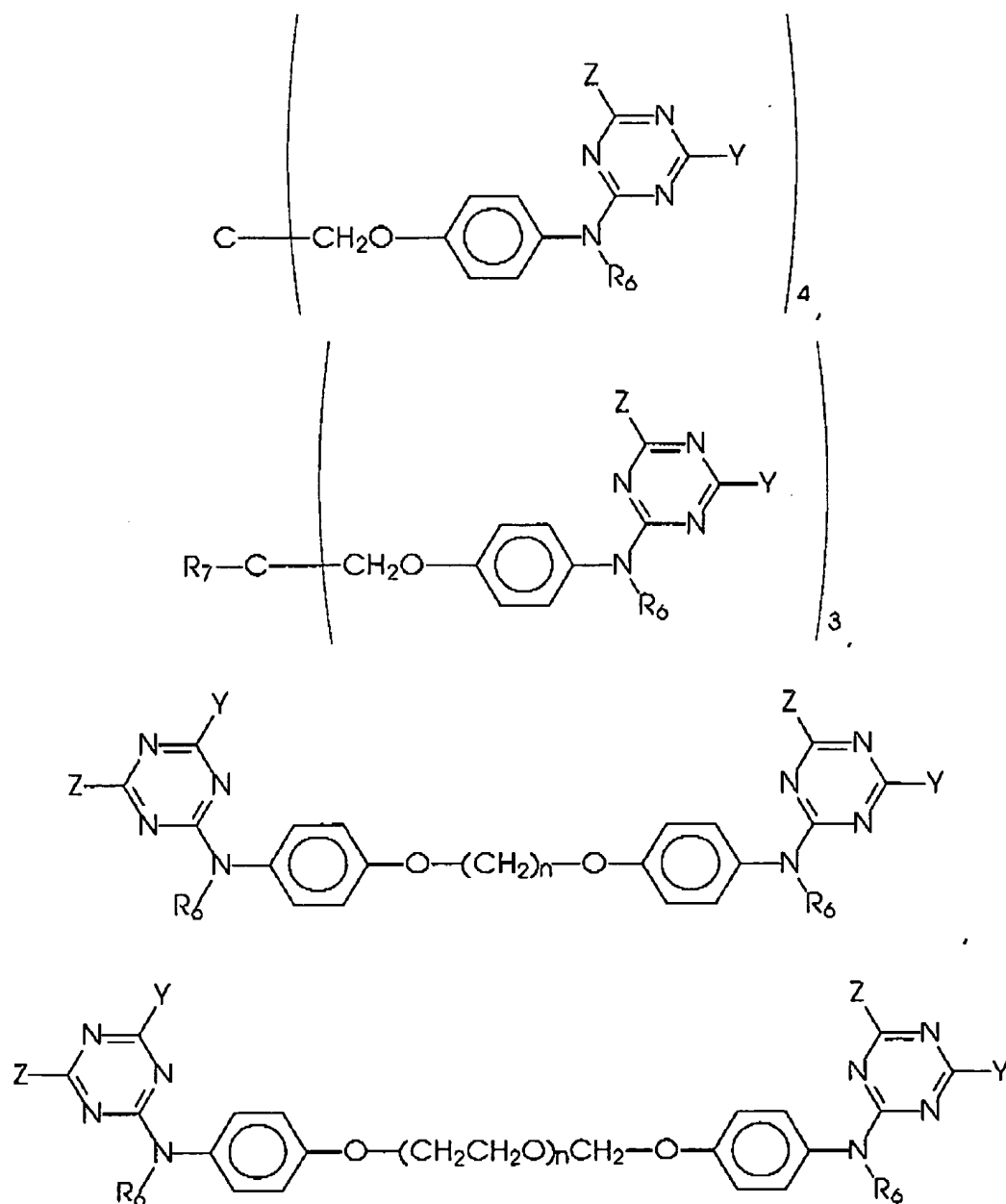
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17. (Original) A compound according to claim 1 of the formula



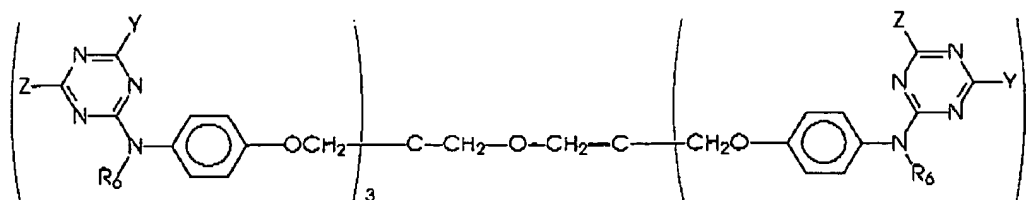
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18. (Currently Amended) A process for preparing a compound of the formula



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or



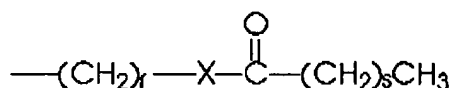
wherein Z is ~~a group of the formula -OR<sub>1</sub>, a group of the formula -SR<sub>1</sub>, or a~~ group of the formula -NR<sub>1</sub>R<sub>2</sub>, Y is ~~a group of the formula -OR<sub>3</sub>, a group of~~ the formula -SR<sub>3</sub>, ~~or a group of the formula -NR<sub>3</sub>R<sub>4</sub>, n is an integer~~ representing the number of repeat -(CH<sub>2</sub>)- or -(CH<sub>2</sub>CH<sub>2</sub>O)- units, wherein, provided that at least one of R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, and R<sub>6</sub> is a hydrogen atom, provided that at least one of R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, and R<sub>6</sub> is other than a hydrogen atom, and provided that at least one Z or Y within the compound is a group of the formula -NR<sub>1</sub>R<sub>2</sub> or a group of the formula -NR<sub>3</sub>R<sub>4</sub>, R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>6</sub>, and R<sub>7</sub> each, independently of the others, is (i) a hydrogen atom, (ii) an alkyl group, including linear, branched, saturated, unsaturated, cyclic, unsubstituted, and substituted alkyl groups, wherein the alkyl group may be saturated or unsaturated, wherein the alkyl group may be substituted or unsubstituted, and wherein hetero atoms either may or may not be placed between the carbon atoms in the alkyl group, (iii) an aryl group, including unsubstituted and substituted aryl groups, wherein the aryl group may be substituted or unsubstituted, and wherein hetero atoms either may or may not be present in the aryl group, (iv) an arylalkyl group, including unsubstituted and substituted arylalkyl groups, wherein the arylalkyl group may be substituted or unsubstituted, and wherein hetero atoms either may or may not be

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present in either or both of the alkyl portion and the aryl portion of the arylalkyl group, or (v) an alkylaryl group, ~~including unsubstituted and substituted alkylaryl groups, wherein the alkylaryl group may be substituted or unsubstituted,~~ and wherein hetero atoms either may or may not be present in either or both of the alkyl portion and the aryl portion of the alkylaryl group, and wherein R<sub>7</sub> can also be (vi) an alkoxy group, ~~including linear, branched, saturated, unsaturated, cyclic, unsubstituted, and substituted alkoxy groups, wherein the alkoxy group may be saturated or unsaturated, wherein the alkoxy group may be substituted or unsubstituted,~~ and wherein hetero atoms either may or may not be present in the alkyl portion of the alkoxy group, (vii) an aryloxy group, ~~including unsubstituted and substituted aryloxy groups, wherein the aryloxy group may be substituted or unsubstituted,~~ and wherein hetero atoms either may or may not be present in the aryl portion of the aryloxy group, (viii) an arylalkyloxy group, ~~including unsubstituted and substituted arylalkyloxy groups, wherein the arylalkyloxy group may be substituted or unsubstituted,~~ and wherein hetero atoms either may or may not be present in either or both of the alkyl portion and the aryl portion of the arylalkyloxy group, (ix) an alkylaryloxy group, ~~including unsubstituted and substituted alkylaryloxy groups, wherein the alkylaryloxy group may be substituted or unsubstituted,~~ and wherein hetero atoms either may or may not be present in either or both of the alkyl portion and the aryl portion of the alkylaryloxy group, (x) a polyalkyleneoxy group, (xi) a polyaryleneoxy group, (xii) a polyarylalkyleneoxy group, (xiii) a polyalkylaryleneoxy group, (xiv) a silyl group, ~~including unsubstituted and substituted silyl~~

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~~groups, wherein the silyl group may be substituted or unsubstituted, (xv) a siloxane group, including unsubstituted and substituted siloxane groups, wherein the siloxane group may be substituted or unsubstituted, (xvi) a polysilylene group, including unsubstituted and substituted polysilylene groups, wherein the polysilylene group may be substituted or unsubstituted, (xvii) a polysiloxane group, including unsubstituted and substituted polysiloxane groups, wherein the polysiloxane group may be substituted or unsubstituted, or (xviii) a group of the formula~~

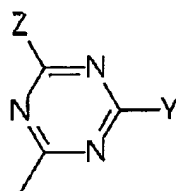


wherein r is an integer representing a number of repeat -CH<sub>2</sub>- groups, wherein s is an integer representing a number of repeating -CH<sub>2</sub>- groups, and wherein X is (a) a direct bond, (b) an oxygen atom, (c) a sulfur atom, (d) a group of the formula -NR<sub>40</sub>- wherein R<sub>40</sub> is a hydrogen atom, an alkyl group, ~~including linear, branched, saturated, unsaturated, cyclic, unsubstituted, and substituted alkyl groups, wherein the alkyl group may be saturated or unsaturated, wherein the alkyl group may be substituted or unsubstituted,~~ and wherein hetero atoms either may or may not be placed between the carbon atoms in the alkyl group, an aryl group, ~~including unsubstituted and substituted aryl groups, wherein the aryl group may be substituted or unsubstituted,~~ and wherein hetero atoms either may or may not be present in the aryl group, an arylalkyl group, ~~including unsubstituted and substituted arylalkyl groups, wherein the arylalkyl group may be substituted or unsubstituted,~~ and wherein hetero atoms either may or may not be present in either or both of the

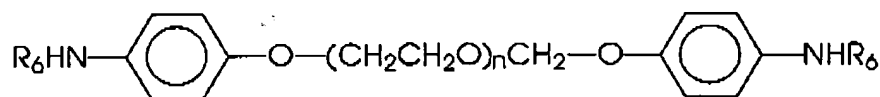
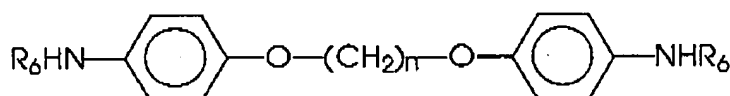
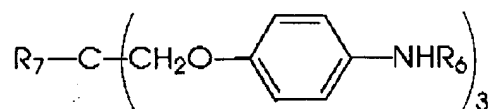
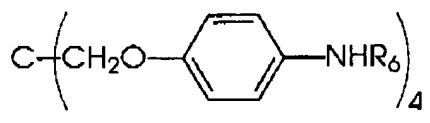
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alkyl portion and the aryl portion of the arylalkyl group, or an alkylaryl group, ~~including unsubstituted and substituted alkylaryl groups, wherein the alkylaryl group may be substituted or unsubstituted, and wherein~~ hetero atoms either may or may not be present in either or both of the alkyl portion and the aryl portion of the alkylaryl group, or (e) a group of the formula  $-CR_{50}R_{60}-$  wherein  $R_{50}$  and  $R_{60}$  each, independently of the other, is a hydrogen atom, an alkyl group, ~~including linear, branched, saturated, unsaturated, cyclic, unsubstituted, and substituted alkyl groups, wherein the alkyl group may be saturated or unsaturated, wherein the alkyl group may be substituted or unsubstituted, and~~ wherein hetero atoms either may or may not be placed between the carbon atoms in the alkyl group, an aryl group, ~~including unsubstituted and substituted aryl groups, wherein the aryl group may be substituted or unsubstituted, and wherein hetero atoms either may or may not be present in the aryl group, an arylalkyl group, including unsubstituted and substituted arylalkyl groups, wherein the arylalkyl group may be substituted or unsubstituted, and wherein hetero atoms either may or may not be present in either or both of the alkyl portion and the aryl portion of the arylalkyl group, or an alkylaryl group, including unsubstituted and substituted alkylaryl groups, wherein the alkylaryl group may be substituted or unsubstituted, and wherein hetero atoms either may or may not be present in either or both of the alkyl portion and the aryl portion of the alkylaryl group, and wherein  $R_6$  can also be~~

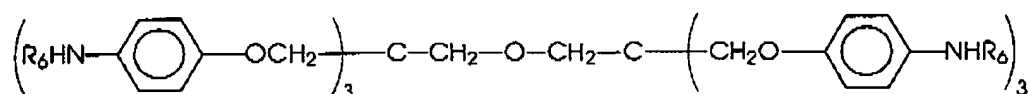
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which comprises (I) admixing a compound of the formula

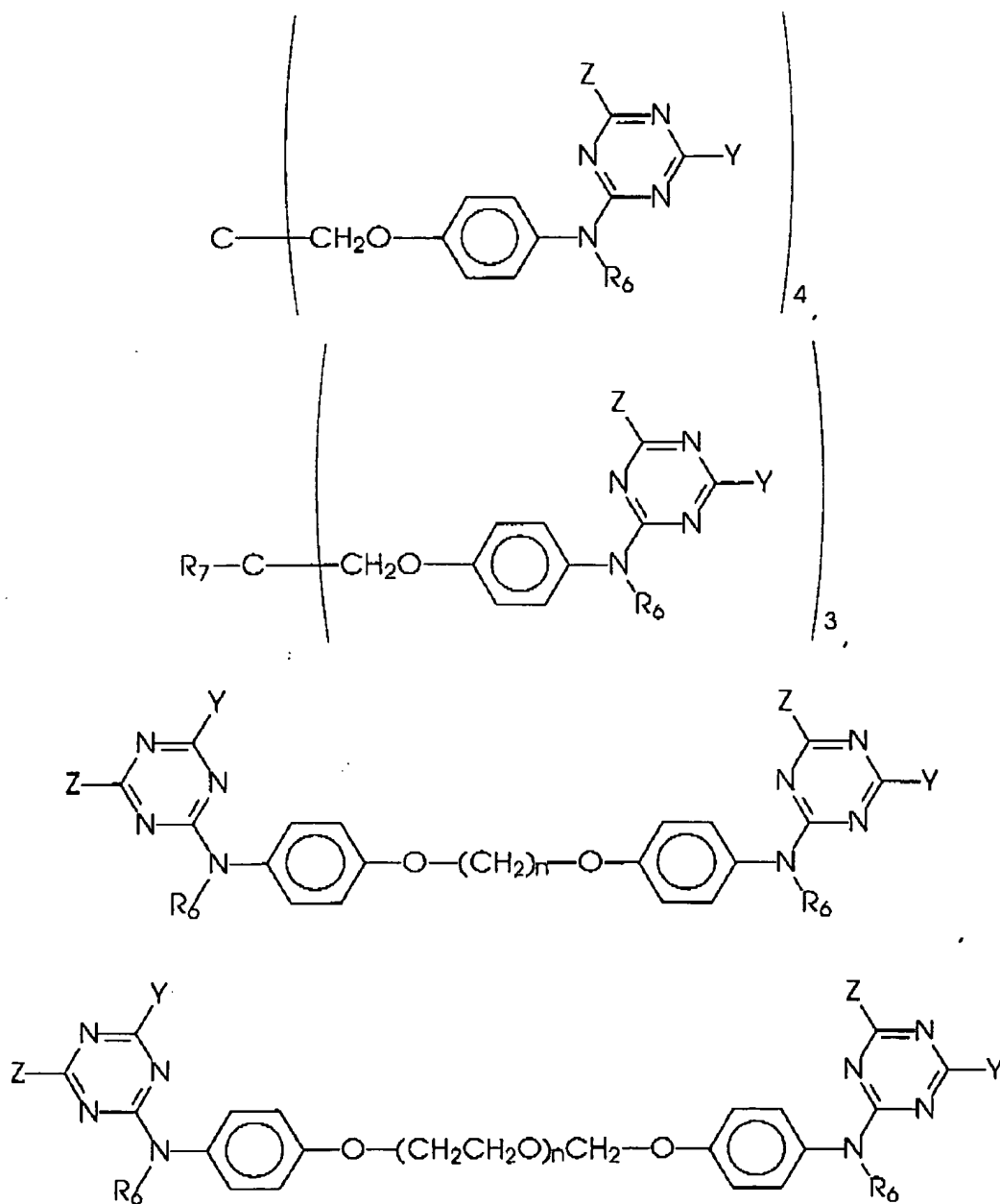


or



with a cyanuric halide at a temperature below about 0°C; and (II) thereafter adding thereto one or more amines of the formulae  $\text{R}_1\text{R}_2\text{NH}$  and  $\text{R}_3\text{R}_4\text{NH}$ , wherein  $\text{R}_1$ ,  $\text{R}_2$ ,  $\text{R}_3$ , and  $\text{R}_4$  can be either the same as each other or different from each other and allowing the reactants to react at a temperature of at least about 60°C, thereby generating a compound of the formula

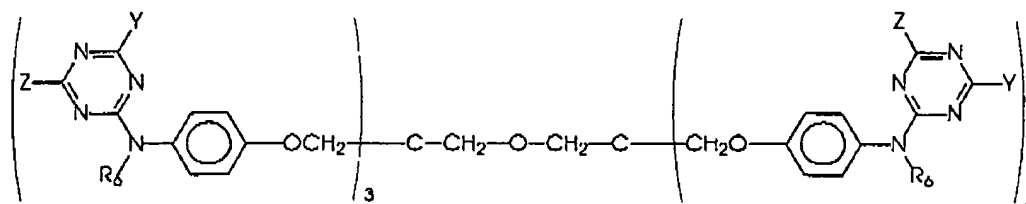
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or



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19. (Cancelled)

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